

CLAIMS

- [1] A portable telephone using a bone conduction device serving as a speaker and/or a microphone, characterized in that: a concave portion, which is larger in diameter than said bone conduction device, is formed in a housing of a main body of the telephone; a cushioning material is disposed between an inner surface of said concave portion and an outer surface of said bone conduction device; and, a gap is formed and kept effective between said bone conduction device and a bottom surface of said concave portion by means of said cushioning material, through which material said bone conduction device is supported and has its vibration surface slightly extended outward from a surface of said housing.
- [2] A portable telephone using a bone conduction device serving as a speaker and/or a microphone, characterized in that: a through-hole portion, which is larger in diameter than said bone conduction device, is formed in a housing of a main body of the telephone; a cushioning material is disposed between an inner surface of said through-hole portion and an outer surface of said bone conduction device; and, said bone conduction device has its vibration surface slightly extended outward from a surface of said housing by means of said cushioning material.
- [3] The portable telephone using the bone conduction device as set forth in claim 2, wherein both the opposite surfaces of said bone conduction device serve as vibration surfaces.
- [4] The portable telephone using the bone conduction device as set forth in any one of claims 1 to 3, wherein: the portable telephone is of a foldable type provided with a housing

constructed of two housing portions foldable relative to each other in a folded position of the telephone; and, in such a folded position of the telephone, said vibration surface of said bone conduction device abuts on an inner surface of one of said housing portions, which one is oppositely disposed from the other one of said housing portions, said the other one carrying said bone conduction device of said housing.

- [5] The portable telephone using the bone conduction device as set forth in any one of claims 1 to 3, wherein: the portable telephone is of a rotatable type provided with a housing constructed of two housing portions rotatable relative to each other in a closed position of the telephone; and, in such a closed position of the telephone, said vibration surface of said bone conduction device abuts on an inner surface of one of said housing portions, which one is oppositely disposed from the other one of said housing portions, said the other one carrying said bone conduction device of said housing.

- [6] The portable telephone using the bone conduction device as set forth in any one of claims 1 to 3, wherein: the portable telephone is of a slidable type provided with a housing constructed of two housing portions slidable relative to each other in a closed position of the telephone; and, in such a closed position of the telephone, said vibration surface of said bone conduction device abuts on an inner surface of one of said housing portions, which one is oppositely disposed from the other one of said housing portions, said the other one carrying said bone conduction device of said housing.

- [7] A portable telephone using a bone conduction device, wherein: said bone conduction device is installed in a device

installation opening of a housing of said bone conduction device by using a device holder made of a resilient material; and, said device holder is constructed of a container portion and a fixing portion, wherein said container portion carries said bone conduction device therein, wherein said fixing portion is fixedly mounted on an inner surface of said housing of a main body of the telephone.

- [8] The portable telephone using the bone conduction device as set forth in claim 7, wherein an abutting plate, which is fixedly mounted on said bone conduction device to cover a front surface side of said container portion, is so arranged as to slightly extend outward from said housing

- [9] The portable telephone using the bone conduction device as set forth in claim 8, wherein a circular rib for receiving therein a peripheral edge portion of a rear surface of said abutting plate is provided in a front surface side of said container portion.